

ACS355 drives Quick installation and start-up guide



Safety instructions

WARNING! Obey these instructions, if you ignore them, injury or death, and damage to the equipment can occur. If you are not a qualified electrical professional, do not do electrical installation or maintenance work.

- Keep the drive in the package until you install it. After unpacking, protect the drive from dust, debris and moisture.
- Use the required personal safety equipment, safety shoes with antistatic sole, safety glasses, protective gloves and long sleeves, etc.
- When the drive is connected to equipment, it energizes, do not do work on the drive, motor cable, motor, control cables or control circuit.
- Do not do work on the drive when a rotating permanent magnet motor is connected to it. A rotating permanent magnet motor energizes the drive, including the input power terminals.

Electrical safety precautions

- Clearly identify the work location and equipment.
- Disconnect all possible voltage sources. Make sure that reconnection is not possible. Lock out and tag out.
 - Open the main disconnecting device of the drive.
 - If you have a permanent magnet motor connected to the drive, disconnect the motor from the drive.
 - Disconnect any dangerous external voltage from the control circuit.
 - After you disconnect power from the drive, always wait 5 minutes for the intermediate circuit capacitors to discharge before you continue.
- Protect any other energized parts in the work location against contact.
- Take special precautions when close to bare conductors.
 - Never touch the installation if it is energized.
 - Use a multimeter with a minimum impedance of 1 M Ω .
 - Make sure that the voltage between the drive input power terminals (U1, V1, W1) and the drive (PE) is close to 0 V.
 - Make sure that the voltage between the drive output terminals (U2, V2, W2) and the ground (PE/0) is close to 0 V.
 - Make sure that the voltage between the drive DC terminals (B+ and B-) and the ground (PE/0) is close to 0 V.
- Install temporary grounding as required by the local regulations.
- Ask the person in control of the electrical installation work for a permit to work.

1. Examine the installation area

- The drive is intended for cabinet installation and has a degree of protection of IP20 (2 M, open type as standard).
- Make sure that in the installation area:
- There is sufficient space above and below the drive for cooling, and hot air does not recirculate. Refer to the concept manual.
 - The ambient conditions are suitable. Refer to the ambient conditions.
 - The mounting surface is non-flammable and can hold the weight of the drive. Refer to the user manual for the maximum weight.
 - There are no sources of strong magnetic fields, such as high-current single-phase conductors or conductors with near the drive. A strong magnetic field can cause interference in the operation of the drive.

2. Install the drive

- Use an install the drive with screws or to a DIN rail (Type M1, M14 x 1.50 x 7.5 mm (0.47 x 0.9 in)).
- Make sure that there is a minimum of 10 mm (0.4 in) of free space above and below the drive for cooling air.
- When placing drives on top of each other in a panel or cabinet, make sure that the hot air from the drives below do not directly enter the drive above.

WARNING! Do not install the drive upside down. Make sure that the cooling air outlet (at the top) is above the cooling air inlet (at the bottom).

To install the drive with screws

- Cut out the mounting terminals from the package and use it to mark the locations for the mounting holes.
- Install the flange for the mounting screws and install outside plugs or elbows.



- Short the input terminals (U1, V1, W1) into the mounting holes.
- Place the drive into the mounting screws.
- Tighten the mounting screws securely.
- To install the drive to a DIN rail
 - Place the top of the drive onto the DIN installation rail, at an angle as shown in figure.
 - Set the drive against the rail.
 - To remove the drive, press the catch button on the top of the drive.
- Attach the clamping plates
 - Position the clamping plate to the plate on the bottom of the drive with the provided screws.
 - Connect the DC clamping plate to the clamping plate with the provided screws.

4. Measure the insulation resistance

Measuring the insulation is typically not required in North America.

Input power cable: Do not do voltage resistance or insulation resistance tests on the drive. Otherwise this can cause damage to the drive.

Input power cable: Before you connect the input power cable, measure the insulation resistance of the input power cable. Obey the local regulations.

- Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (U2, V2 and W2).
- Use a voltage of 500 V or DC to measure the insulation resistance between each phase conductor and the protective earth conductor. The insulation resistance of an AC motor cable must be more than 500 M Ω (at 25 °C/77 °F). For the insulation resistance of other motors, refer to the manufacturer's documentation. Moisture in the motor decreases the insulation resistance. If you think that there is moisture in the motor, dry the motor and do the measurement again.

5. Select the cables

Input power cable: IEC/EN 60200-5-2 requires the protective earth (ground) conductors. Prefer a symmetrical shielded cable (SFD) cable.

Control cable: Use a double-shielded twisted-pair cable for analog signals. Use a double-shielded cable for digital, relay and I/O signals. For hot mix 24 V and 24 V/0 V signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)



- Use a separate grounding of the cable shield required for the motor cable and the motor cable. Recommended for the input power cable.
- Use a separate grounding cable if the conductivity of the cable sheath is not sufficient for the motor cable. The conductor must be connected to a symmetrical ground or there is no symmetrical symmetrical grounding conductor in the cable. In all cases, the conductor must be connected to the ground.
- Use a separate grounding of the cable shield required for the motor cable and the motor cable. Recommended for the input power cable.
- Use a separate grounding cable if the conductivity of the cable sheath is not sufficient for the motor cable. The conductor must be connected to a symmetrical ground or there is no symmetrical symmetrical grounding conductor in the cable. In all cases, the conductor must be connected to the ground.

Connection procedure (shielded cables)

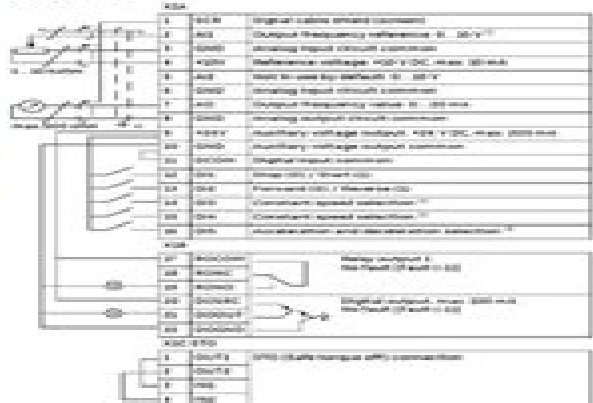
- Strip the input power cable. Ground the cable shield (PE) under the grounding clamp. Cut the cable shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors for the U1, V1 and W1 terminals.
- Strip the motor cable. Ground the cable shield under the grounding clamp. Take the motor cable shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors for the U2, V2 and W2 terminals.
- If applicable, connect the motor cable to the B+ and B- terminals. Use a shielded cable and ground the shield under the grounding clamp.
- Mechanically attach the cables on the outside of the drive.

Power size	U1, V1, W1, U2, V2, W2, B+, B- (mm ²)	PE (mm ²)
55 - 62	0.5 to 1.0 (16 to 25)	0.5 to 1.0 (16 to 25)
63	0.5 to 1.0 (16 to 25)	0.5 to 1.0 (16 to 25)
64	0.5 to 1.0 (16 to 25)	0.5 to 1.0 (16 to 25)

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 9999 has value 0 (user 0 connection).



1. Cable used as a speed reference if motor 1 and 2 are used as speed reference. 2. Cable used as a speed reference if motor 1 and 2 are used as speed reference. 3. Cable used as a speed reference if motor 1 and 2 are used as speed reference.

Connection procedure

- To prevent inductive coupling, keep the signal wires pairs isolated at the top up to the terminals.
- Remove the terminal cover.
- Strip the outer insulation of the cable and ground the shield (PE) degrees under the clamp.
- Connect the conductors for the control circuit terminals. Connect the terminals to the cable shield and connect the bundle for the DC terminal shield.
- Mechanically attach the control cables on the outside of the drive.
- If you are going to use an optional Safe Torque Off function, connect STO conductors for the correct terminals. Use a lightning surge protector for the STO function.
- Connect you need to install the optional fieldbus module, when the fieldbus module is used.

8. Install the fieldbus module (optional)

See the drive user's manual.

9. Install the control panel (if any)

10. Start up the drive

WARNING! Before you start up the drive, make sure that the installation is complete. Make sure that the cover of the drive is in place. Make sure that the motor is properly grounded. If there is a risk of damage or injury, please refer to the installation manual for the drive user's manual.

- Start up without a control panel
- Apply input power and wait for a moment.
- Check that the red LED is on and the green LED is on but not blinking. The drive is now ready for use.
- Start up with a control panel (manual start-up)

You can use the basic control panel on the assistant control panel. This control panel can be used for both control panels. When you start the drive, the motor will start. When you stop the drive, the motor will stop. When you start the drive, the motor will start. When you stop the drive, the motor will stop.

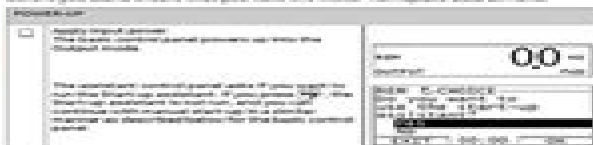


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Mergent International Manual ,2009 Moody's International Manual ,1998 **Industrial Motion Control** Dr. Hakan Gurocak,2016-03-14 Motion control is widely used in all types of industries including packaging assembly textile paper printing food processing wood products machinery electronics and semiconductor manufacturing Industrial motion control applications use specialized equipment and require system design and integration To design such systems engineers need to be familiar with industrial motion control products be able to bring together control theory kinematics dynamics electronics simulation programming and machine design apply interdisciplinary knowledge and deal with practical application issues The book is intended to be an introduction to the topic for senior level undergraduate mechanical and electrical engineering students It should also be resource for system design engineers mechanical engineers electrical engineers project managers industrial engineers manufacturing engineers product managers field engineers and programmers in industry Charging the Internal Combustion Engine Hermann Hiereth,Peter Prenninger,2007-11-04 This book covers all aspects of supercharging internal combustion engines It details charging systems and components the theoretical basic relations between engines and charging systems as well as layout and evaluation criteria for best interaction Coverage also describes recent experiences in design and development of supercharging systems improved graphical presentations and most advanced calculation and simulation tools **Handbook of Diesel Engines** Klaus Mollenhauer,Helmut Tschöke,2010-06-22 This machine is destined to completely revolutionize cylinder diesel engine up through large low speed t engine engineering and replace everything that exists stroke diesel engines An appendix lists the most From Rudolf Diesel s letter of October 2 1892 to the important standards and regulations for diesel engines publisher Julius Springer Further development of diesel engines as economiz Although Diesel s stated goal has never been fully ing clean powerful and convenient drives for road and achievable of course the diesel engine indeed revolu nonroad use has proceeded quite dynamically in the tionized drive systems This handbook documents the last twenty years in particular In light of limited oil current state of diesel engine engineering and technol reserves and the discussion of predicted climate ogy The impetus to publish a Handbook of Diesel change development work continues to concentrate Engines grew out of ruminations on Rudolf Diesel s on reducing fuel consumption and utilizing alternative transformation of his idea for a rational heat engine fuels while keeping exhaust as clean as possible as well into reality more than 100 years ago Once the patent as further increasing diesel engine power density and was filed in 1892 and work on his engine commenced enhancing operating performance **Volkswagen Jetta, Golf, GTI Service Manual** Bentley Publishers,2003 Bentley Publishers is the exclusive factory authorized publisher of Volkswagen Service Manuals in the United States and Canada In every manual we provide full factory repair procedures specifications tolerances electrical wiring diagrams and lubrication and maintenance information Bentley manuals are the only complete authoritative source of Volkswagen maintenance and repair information

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Diesel Engines and Gas Turbines Doug Woodyard,2009-08-18 Since its first appearance in 1950 Pounder s Marine Diesel Engines has served seagoing engineers students of the Certificates of Competency examinations and the marine engineering industry throughout the world Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine Now in its ninth edition Pounder s retains the directness of approach and attention to essential detail that characterized its predecessors There are new chapters on monitoring control and HiMSEN engines as well as information on developments in electronic controlled fuel injection It is fully updated to cover new legislation including that on emissions and provides details on enhancing overall efficiency and cutting CO2 emissions After experience as a seagoing engineer with the British India Steam Navigation Company Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping shipbuilding and marine engineering He is currently technical editor of Marine Propulsion and Auxiliary Machinery a contributing editor to Speed at Sea Shipping World and Shipbuilder and a technical press consultant to Rolls Royce Commercial Marine Helps engineers to understand the latest changes to marine diesel engines Careful organisation of the new edition enables readers to access the information they require Brand new chapters focus on monitoring control systems and HiMSEN engines Over 270 high quality clearly labelled illustrations and figures to aid understanding and help engineers quickly identify what they need to know Pounder's Marine Diesel Engines Doug Woodyard,2003-12-09 Since its first appearance in 1950 Pounder s Marine Diesel Engines has served seagoing engineers students of the Certificates of Competency examinations and the marine engineering industry throughout the world Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine This eighth edition retains the directness of approach and attention to essential detail that characterized its predecessors There are new chapters on monitoring control systems and

governor systems gas turbines and safety aspects of engine operation Important developments such as the latest diesel electric LNG carriers that will soon be in operation After experience as a seagoing engineer with the British India Steam Navigation Company Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping shipbuilding and marine engineering He is currently technical editor of Seatrade a contributing editor to Speed at Sea Shipping World and Shipbuilder and a technical press consultant to Rolls Royce Commercial Marine Designed to reflect the recent changes to SQA Marine and Coastguard Agency Certificate of Competency exams Careful organisation of the new edition enables readers to access the information they require Brand new chapters focus on monitoring control systems and governor systems gas turbines and safety aspects of engine operation High quality clearly labelled illustrations and figures **ASME Technical Papers** ,2001 **Power Plant Instrumentation and Control**

Handbook Swapan Basu,Ajay Kumar Debnath,2014-11-04 The book discusses instrumentation and control in modern fossil fuel power plants with an emphasis on selecting the most appropriate systems subject to constraints engineers have for their projects It provides all the plant process and design details including specification sheets and standards currently followed in the plant Among the unique features of the book are the inclusion of control loop strategies and BMS FSSS step by step logic coverage of analytical instruments and technologies for pollution and energy savings and coverage of the trends toward field bus systems and integration of subsystems into one network with the help of embedded controllers and OPC interfaces The book includes comprehensive listings of operating values and ranges of parameters for temperature pressure flow level etc of a typical 250 500 MW thermal power plant Appropriate for project engineers as well as instrumentation control engineers the book also includes tables charts and figures from real life projects around the world Covers systems in use in a wide range of power plants conventional thermal power plants combined cogen plants supercritical plants and once through boilers Presents practical design aspects and current trends in instrumentation Discusses why and how to change control strategies when systems are updated changed Provides instrumentation selection techniques based on operating parameters Spec sheets are included for each type of instrument Consistent with current professional practice in North America Europe and India **A.I.D. Research and Development Abstracts** ,1984 *Proceedings of the ASME Turbo Expo ...* ,2007

A.I.D. Research and Development Abstracts United States. Agency for International Development,1989 *The Motor Ship* ,1998 Aufladung der Verbrennungskraftmaschine Hermann Hiereth,Peter Prenninger,2013-03-11 Das Buch behandelt die Aufladung der Kolben Verbrennungskraftmaschine Dabei wird auf die Aufladegeräte und systeme selbst die theoretischen Zusammenhänge des Zusammenwirkens Motor und Auflade Systeme sowie schlussendlich auf die Kriterien des Zusammenwirkens dieser System Kombination unter besonderer Berücksichtigung des Betriebsverhaltens eingegangen Es werden neue Erkenntnisse bei der Entwicklung und Adaption von Aufladesystemen neue Darstellungsformen sowie die heute

angewandten Berechnungs und Simulationsverfahren vorgestellt mit Beispielen erläutert und bewertet. Einen Schwerpunkt bildet das Betriebs- und Regelverhalten aufgeladener Verbrennungsmotoren in den verschiedenen Anwendungs- bzw. Einsatzgebieten. Eine Reihe ausgewählter Anwendungsbeispiele sowie ein Ausblick auf mögliche Weiterentwicklungen des Systems Aufladungsmotor beschließen die Abhandlung.

Lloyd's Ship Manager, 2001 **Proceedings of the ASME Turbo Expo 2002**, 2002 **Motor Auto Repair Manual/1980-1986** Motor (New York, N.Y.), 1985-11

Abb Turbo Maintenance Manual Book Review: Unveiling the Magic of Language

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